

### **REMARKS**

Claims 1-29 and 33-61 are pending in this application, of which claims 1, 19, 33 and 51 are independent. No new matter has been added. Applicants submit that all of the pending claims are in condition for allowance. Applicants respectfully request reconsideration of the outstanding rejections and allowance of all pending claims in view of the remarks included herein.

#### **Claim Rejections under 35 U.S.C. § 103(a)**

Claims 1-29 and 33-61 have been rejected under 35 U.S.C. § 103(a) as being unpatentable over U.S. Patent Application Publication No. 2004/0260700 by Wang et al. (hereafter “Wang”) in view of U.S. Patent No. 5,522,073 to Courant et al. (hereafter “Courant”) in further view of U.S. Patent Application Publication No. 2005/0055666 by Kornerup et al. (hereafter “Kornerup”) (Office Action, page 2).

#### **1. Claims 1-18 and 33-50**

Claim 1 recites:

“A method for controlling model execution in a graphical modeling environment, the method comprising:

**displaying a view of a graphical model with a plurality of executable time-based components, the graphical model including at least one user-configurable graphical post component representing an event, the graphical post component specifying a condition that is satisfied during execution of said graphical model before a posting of a notice of said event occurs;**

identifying when said condition is satisfied during execution of said graphical model;

posting said notice of an occurrence of said event in said graphical modeling environment to an event handler, said posting notifying said event handler of said occurrence of said event; and

executing at least one component from said plurality of components in response to said notifying.” (emphasis added)

Wang, Courant, and Kornerup, alone or in any reasonable combination, fail to disclose or suggest all of the features of claim 1. For example, Wang, Courant, and Kornerup do not disclose or suggest **displaying a view of a graphical model with a plurality of executable time-based components, the graphical model including at least one user-configurable graphical post component representing an event, the graphical post component specifying**

**a condition that is satisfied during execution of said graphical model before a posting of a notice of said event occurs**, as recited in claim 1.

The Examiner states that Wang teaches “a graphical modeling environment” (Office Action, page 2, last ¶). Applicants respectfully disagree.

Wang discusses a Guideline Execution Engine (GLEE) for clinical practice guidelines that are used in assisting healthcare practitioners with patient care decisions based on clinical circumstances. The GLEE system provides a state chart offering health care practitioners guidance that transitions from state to state based on external clinical data for a patient (see Figures 5-27). For example, the transition may occur based on whether a patient is eligible for a second dose of influenza vaccine (see paragraph 0046). The GLEE system is not a time-based model that can be executed (See also Figure 4 and discussion thereon).

Wang does not disclose a graphical modeling environment. It appears that the Examiner refers to the figures of Wang to infer that Wang discloses a graphical modeling environment. However, the figures of Wang cited by the Examiner describe the system architecture used in conjunction with providing guidelines in the clinical practice. Wang indicates that these figures illustrate the system architecture and relationships among guideline execution tasks as opposed to a graphical modeling environment ([0020]-[0035], Brief Description of Figures). As such, the system of Wang relates to computer-based clinical practice guidelines as opposed to model execution in a graphical modeling environment, as recited in Applicants’ claims.

Moreover, it appears that the Examiner agrees that Wang does not teach **displaying a view of a graphical model with a plurality of executable time-based components, said graphical model including at least one user-configurable graphical post component representing an event, said graphical post component specifying a condition that is satisfied during execution of said graphical model before a posting of a notice of said event occurs**, as recited in claim 1 (Office Action, page 3). Applicants agree.

The Examiner indicates that Courant teaches this claim element. Applicants respectfully disagree.

Courant fails at curing the shortcomings of Wang with respect to **displaying a view of a graphical model with a plurality of executable time-based components, said graphical model including at least one user-configurable graphical post component representing an event, said graphical post component specifying a condition that is satisfied during execution of said graphical model before a posting of a notice of said event occurs.** While Courant discusses software tools that perform predefined tasks and communicate with each other through events passed over an event server (*see* Col. 2, lines 28-33), Courant, just like Wang, fails to disclose or suggest a graphical model with a plurality of executable time-based components. Therefore, the combination of Wang and Courant cannot disclose or suggest displaying a view of a graphical model with a plurality of executable time-based components.

Furthermore, the combination of Wang and Courant fails to disclose or suggest still other features of claim 1. For example, Wang and Courant do not disclose or suggest **a graphical model including at least one user-configurable graphical post component representing an event, said graphical post component specifying a condition that is satisfied during execution of said graphical model before a posting of a notice of said event occurs,** as recited in Applicants' claim 1. As correctly indicated by the Examiner, Wang does not disclose this feature (Office Action, page 3, ¶ 1). The Examiner relies on Courant to cure the shortcomings of Wang with respect to at least this claim feature. Applicants disagree.

Courant discusses a user selecting a "when" event and selecting one or more "then" events (Col. 2, lines 34-48). The user creates a routine that he can save, enable or disable (Col. 2, lines 49-52). However, nowhere does Courant disclose or suggest a user-configurable graphical post component specifying a condition that is satisfied during execution of the graphical model before posting of a notice of the event occurs, as present in Applicants' claim 1. Accordingly, the combination of Wang and Courant fails to disclose or suggest **displaying a view of a graphical model with a plurality of executable time-based components, said graphical model including at least one user-configurable graphical post component representing an event, said graphical post component specifying a condition that is satisfied during execution of said graphical model before a posting of a notice of said event occurs,** as recited in claim 1.

It is not clear from the Office Action how the Examiner is applying Kornerup to Wang and Courant to render the teachings of claim 1 obvious. Kornerup discusses execution of a timed loop based on the occurrence of an associated event (see paragraph 0135 discussing Figure 5). However, there is absolutely no indication in Kornerup that a user-configurable graphical post component is provided in a graphical model in the Kornerup system as a means for controlling the timed loop's execution. Therefore a combination of Wang, Courant and Kornerup fails to disclose or suggest **displaying a view of a graphical model with a plurality of executable time-based components, said graphical model including at least one user-configurable graphical post component representing an event, said graphical post component specifying a condition that is satisfied during execution of said graphical model before a posting of a notice of said event occurs**, as recited in Applicants' claim 1.

It appears that the Examiner finds some pieces of the teachings of claim 1 in three different references. However, it is not clear how an artisan may be able to combine these teachings to come up with each and every feature of claim 1. Even if for the sake of argument it is assumed that one of the references teach a graphical modeling environment, the combination of the references does not disclose or suggest, for example, **displaying a view of a graphical model with a plurality of executable time-based components, the graphical model including at least one user-configurable graphical post component representing an event, the graphical post component specifying a condition that is satisfied during execution of said graphical model before a posting of a notice of said event occurs**, as recited in Applicants' claim 1.

Accordingly, for at least these reasons, Wang, Courant and Kornerup, alone or in any reasonable combination, do not disclose or suggest the elements of claim 1. Applicants respectfully requests allowance of claim 1. Furthermore, since claims 2-18 are dependent upon claim 1, the cited references also fail to disclose or suggest the elements of dependent claims 2-18. Applicants respectfully request the allowance of claims 2-18.

Claim 33 is a medium claim corresponding to claim 1 and Applicants submit that claim 33 is allowable for at least the reasons discussed for claim 1. Claims 34-50 are dependent upon claim 33, and Applicants therefore submit that the cited references also fail to disclose or suggest the elements of dependent claims 34-50. Applicants request the allowance of claims 34-50.

2. Claims 19-30 and 51-61

Claim 19 recites:

“A method for controlling model execution in a modeling environment, the method comprising:

**displaying a view of a model with a plurality of executable components, the model including at least one user-configurable post component representing an event, the post component specifying a condition that is satisfied during execution of the model before a posting of a notice of said event occurs;**

identifying when said condition is satisfied during the execution of said model;

posting said notice of an occurrence of said event in said modeling environment to an event handler, said posting notifying said event handler of said occurrence of said event;

interrupting execution of an executing event in response to the determination of the occurrence of said specified event; and

performing an operation in said model in response to the determination of the occurrence of the specified event.” (emphasis added)

The combination of Wang in view of Courant in further view of Kornerup fails to disclose or suggest all of the elements of claim 19. More specifically, the cited combination of references fails to disclose or suggest **displaying a view of a model with a plurality of executable components, the model including at least one user-configurable post component representing an event, the post component specifying a condition that is required to be satisfied during execution of said model before a posting of a notice of said event occurs.** Applicants respectfully submit that the discussion regarding claim 1 is equally applicable to claim 19.

Accordingly, for at least these reasons, since Wang, Courant and Kornerup, alone or in any reasonable combination, does not disclose or suggest all of the elements of claim 19, Applicants request the allowance of claim 19. Furthermore, since claims 20-29 are dependent upon claim 19, the cited references also fail to disclose or suggest the elements of dependent claims 20-29 and Applicants request the allowance of claims 20-29.

Claim 51 is a medium claim corresponding to claim 19 and Applicants submit that claim 51 is allowable for at least the reasons discussed for claim 19. Claims 52-61 are dependent upon

claim 51, and Applicants therefore submit that the cited references also fail to disclose or suggest the elements of dependent claims 52-61. Applicants request the allowance of claims 52-61.

**CONCLUSION**

In view of the above amendment, Applicants believe the pending application is in condition for allowance. Should the Examiner feel that a teleconference would expedite the prosecution of this application, the Examiner is urged to contact the Applicants' attorney at (617) 227-7400.

Please charge any shortage or credit any overpayment of fees to our Deposit Account No. 12-0080, under Order No. MWS-056. In the event that a petition for an extension of time is required to be submitted herewith, and the requisite petition does not accompany this response, the undersigned hereby petitions under 37 C.F.R. §1.136(a) for an extension of time for as many months as are required to render this submission timely. Any fee due is authorized to be charged to the aforementioned Deposit Account.

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Respectfully submitted,

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